

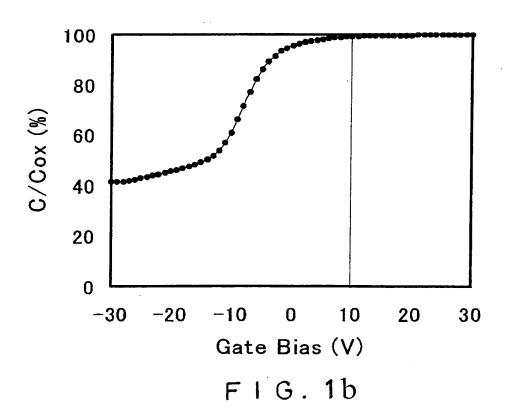
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FIG. 1a

$$CH_3 - C = C \xrightarrow{B} \overset{C}{N} \xrightarrow{B} C = C - CH_3$$

$$C = C - CH_3$$

$$C = C - CH_3$$



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FIG. 2a

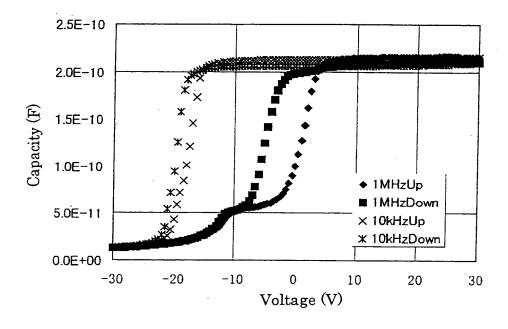
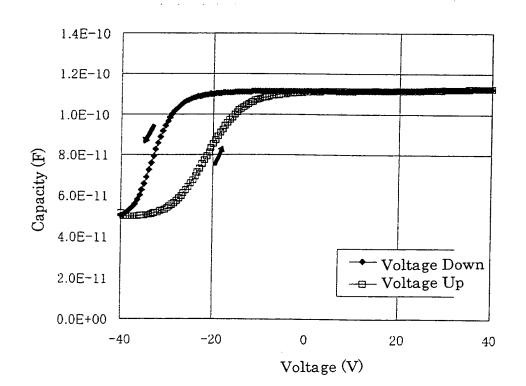
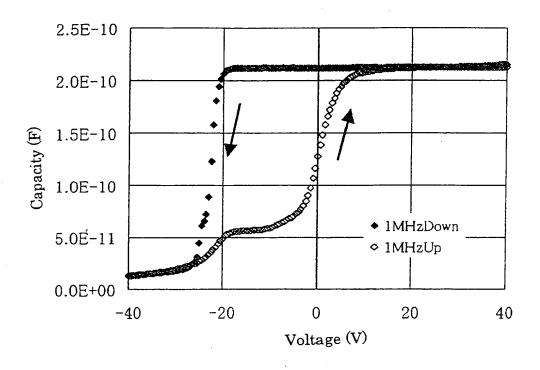


FIG. 2b

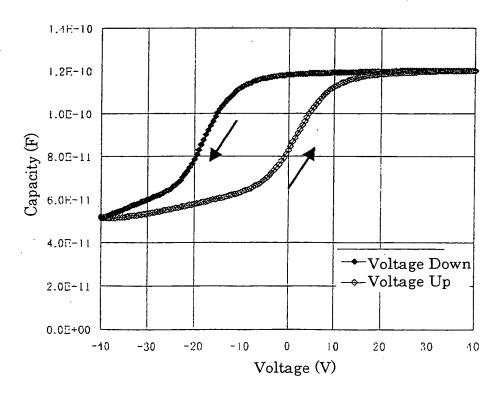


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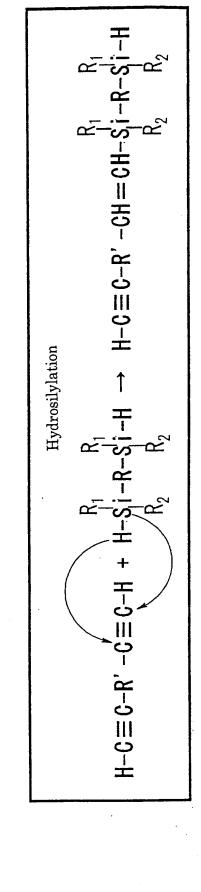
F I G. 3a



F I G. 3b



S--S--



F16.4a

CH=CH— Borazinc-carbosilane polymer SH=CH-SI HO-HO-Pt2(dvs)3 gat. ethylbenzene triethynylborazine p-bis(dimethylsilyl)benzene CH3 CH3 H0 == C ≡ CH OH≡ C

(1:1 mol/mol)

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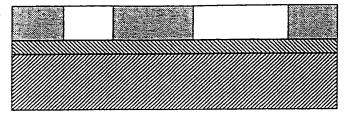
Pt2(dvs)3 gat. ethylbenzene Č≡ CH CH≡ C

Borazine-siloxane polymer

triethynylborazine tetrame (1:1 mol/mol)

tetramethylcyclosiloxane

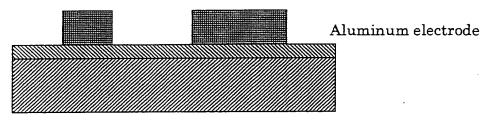
Attachment of metal mask to sample



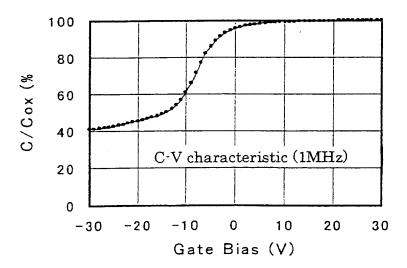
Metal mask
Borazine polymer
Silicon substrate

, F I G. 5a

Removal of mask after evaporation of aluminum



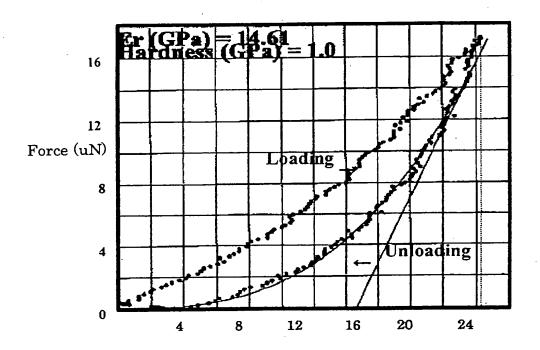
F 1 G. 5b



F 1 G. 5c

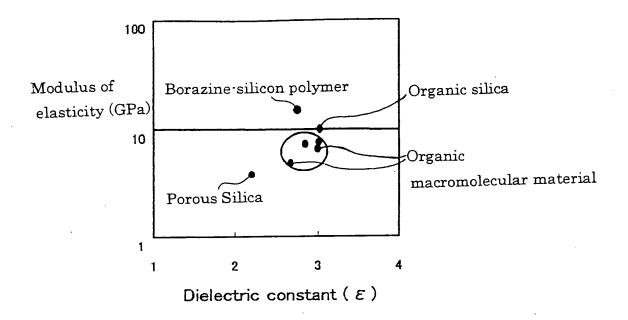
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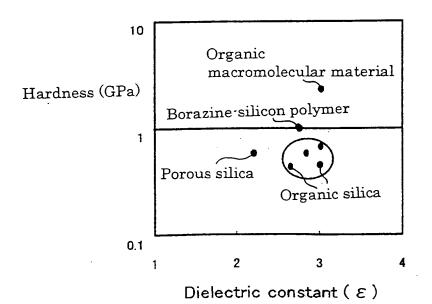
F I G. 6



Depth of embedding (nm)

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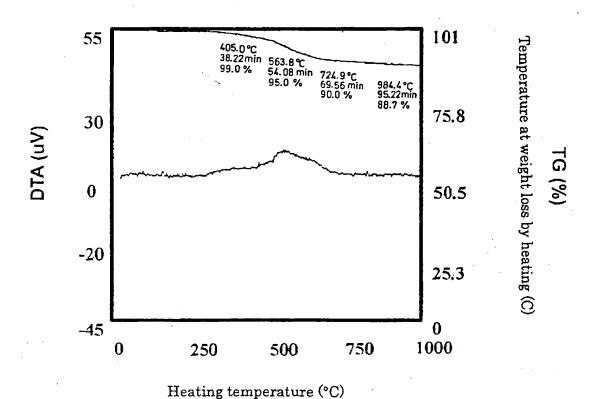




F I G. 7b

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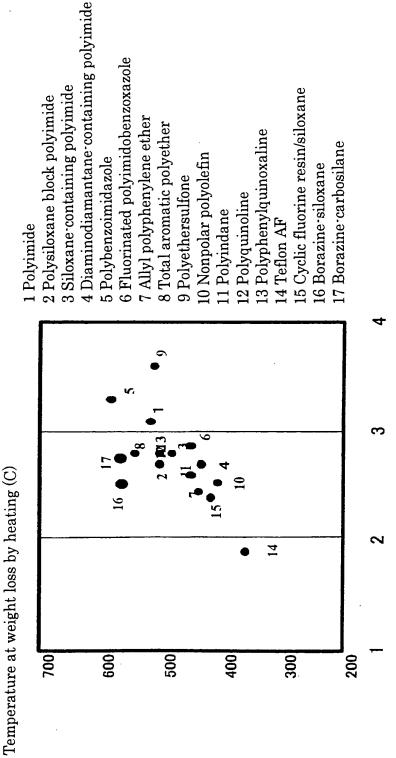
F 1 G. 8



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F1G.9

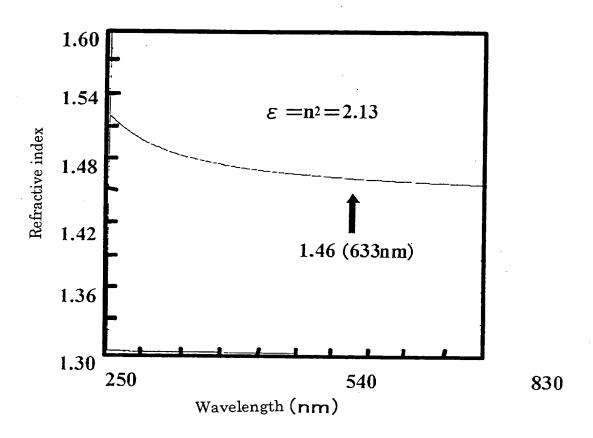
TG (%)



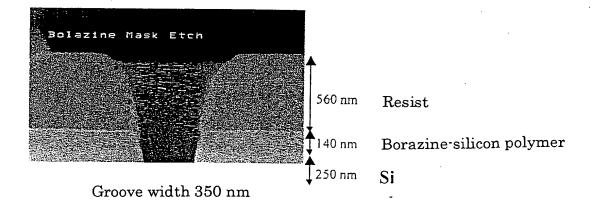
Relative dielectric constant

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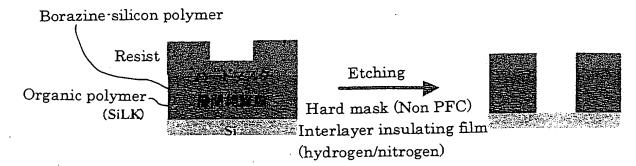
FIG. 10



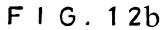
F I G. 11



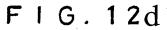
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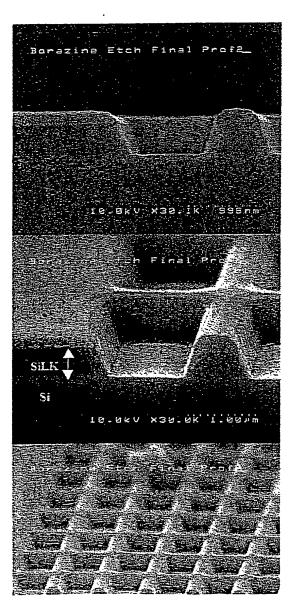


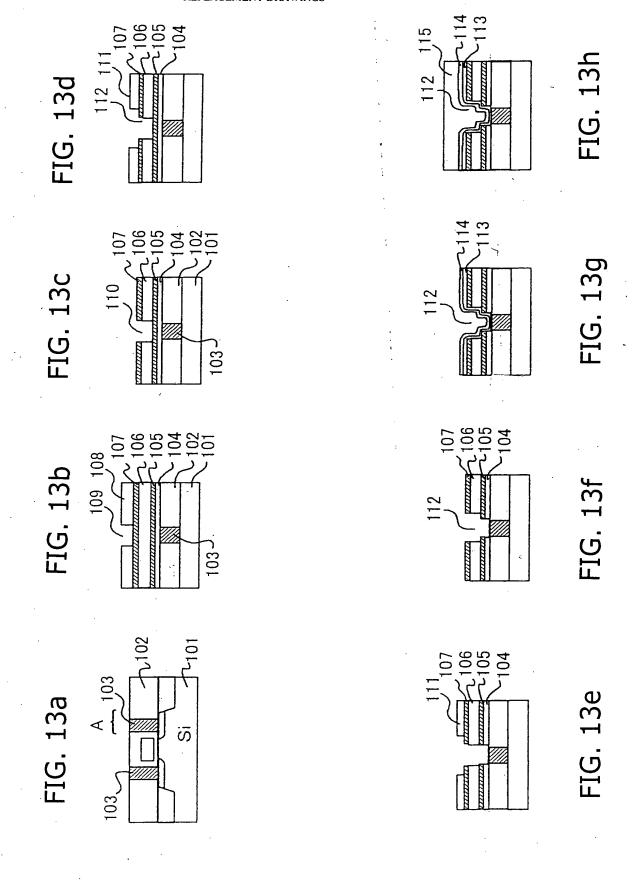
F I G. 12a



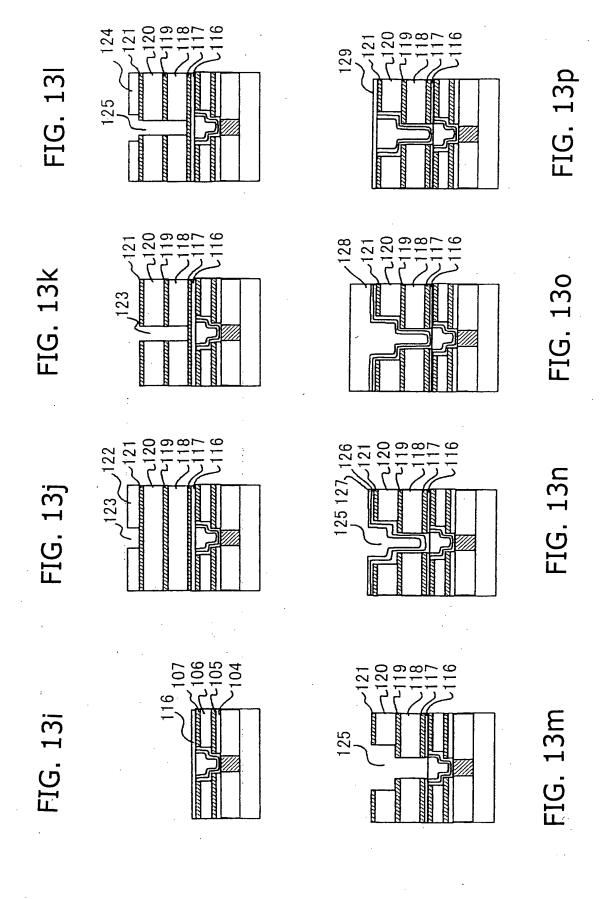
F I G. 12c





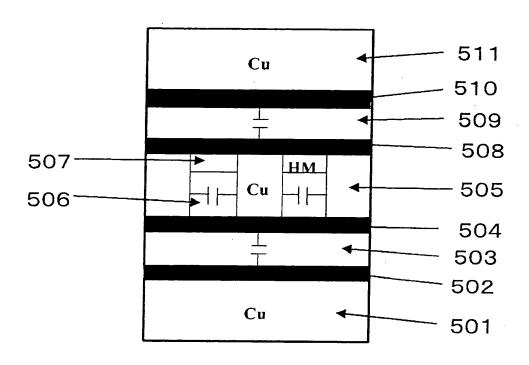


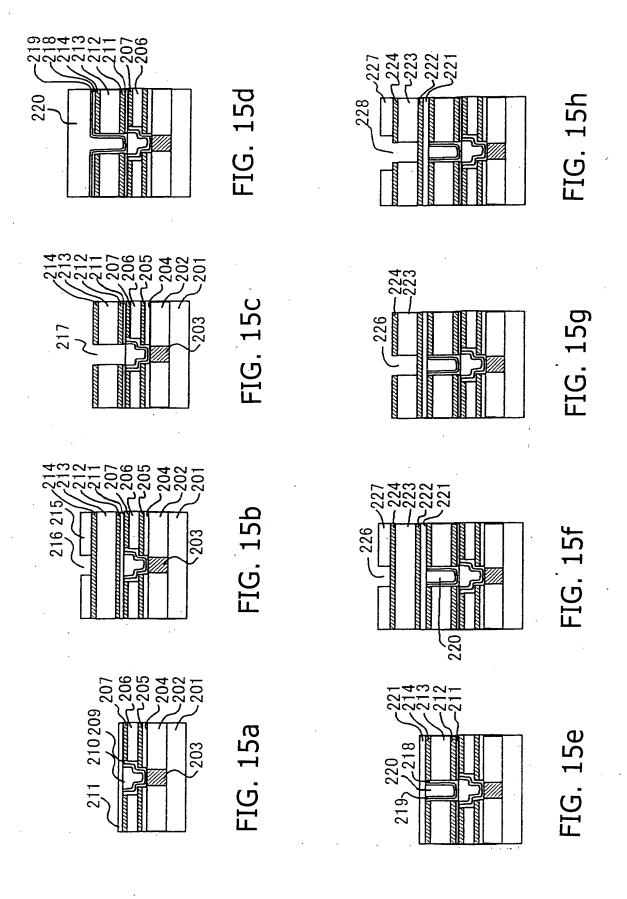
OBLON ET AL (703) 413-3000 DOCKET # 251148US0 INV. Yuko UCHIMARU et al. USSN 10/809,704 Reply to N.T.F.C.A.P. DATED December 21, 2005 REPLACEMENT DRAWINGS

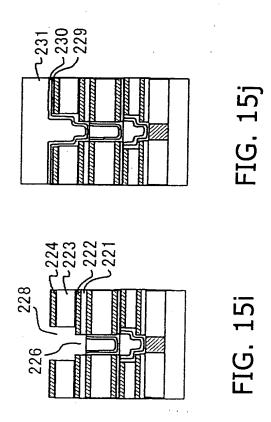


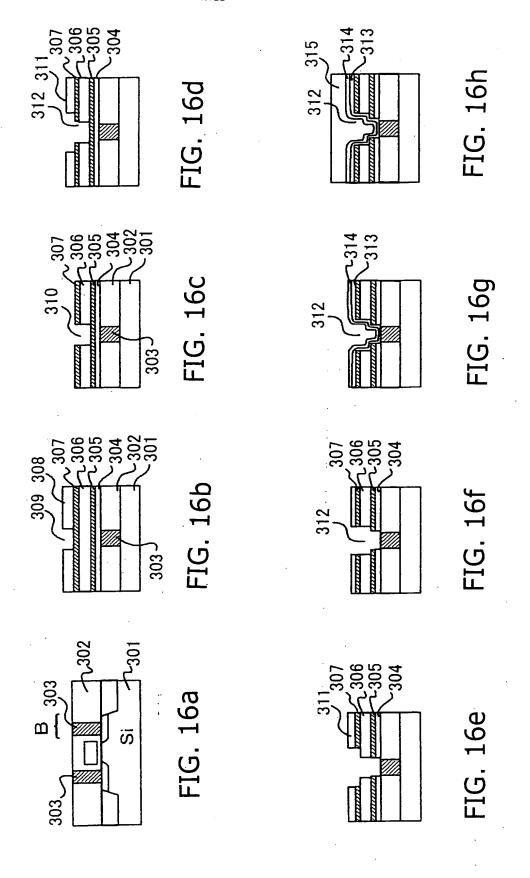
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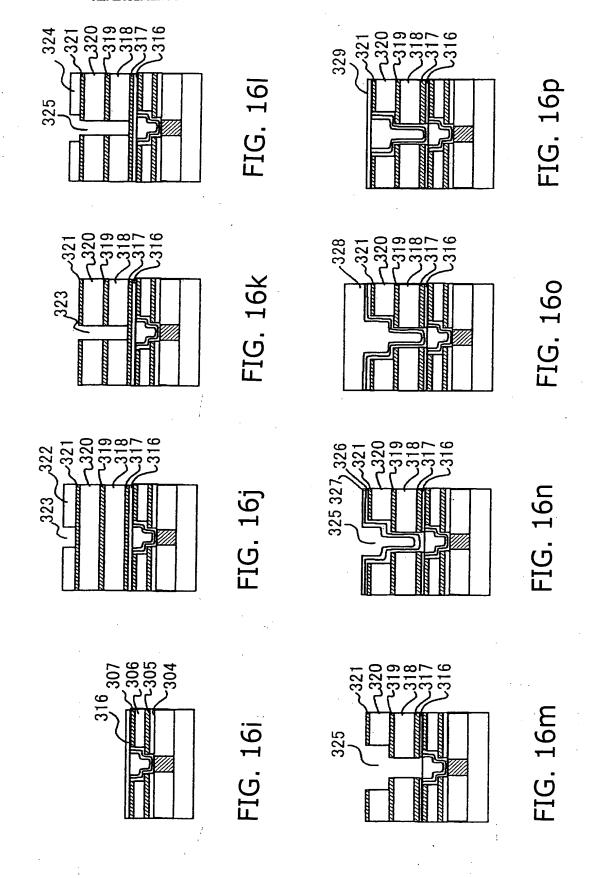
FIG. 14

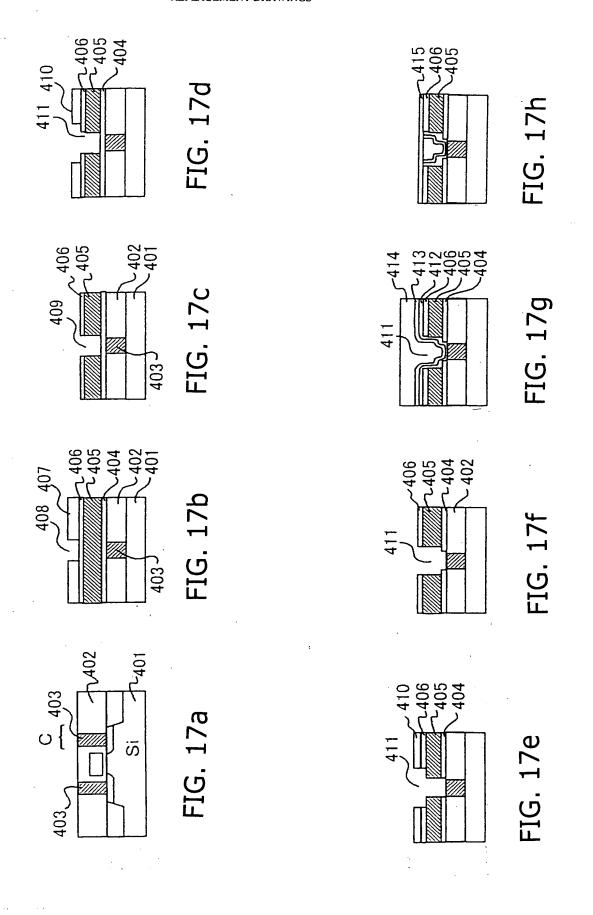


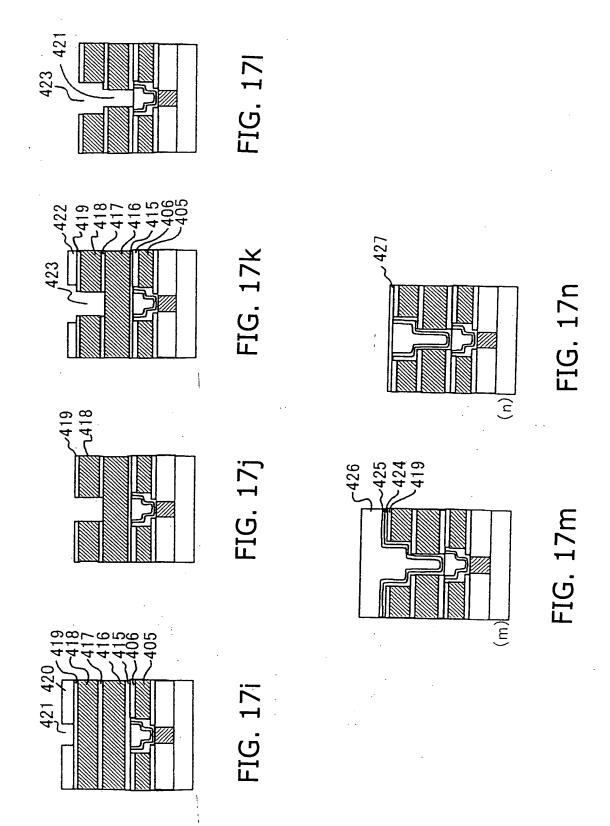






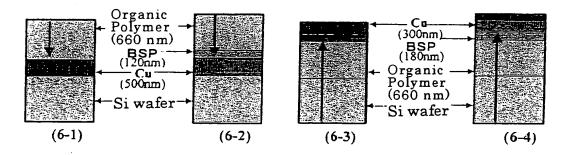






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FIG. 18a

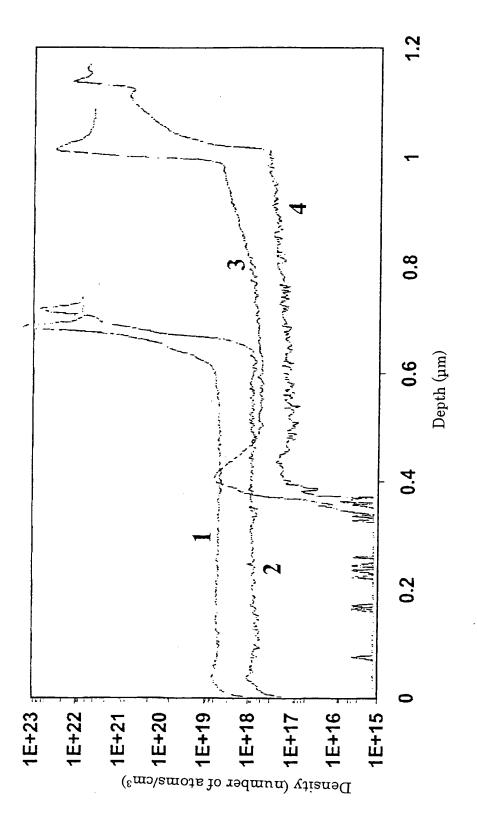


	Structure	Cu atoms/cm3
1	Si/Cu(500nm)/OP(660nm)	5 × 10 ¹⁸
2	Si/Cu(500nm)/BSP(120nm)/OP(660nm)	8 × 10 ¹⁷
3	Si/OP(660nm)/Cu(300nm)	6 × 10 ¹⁷
4	Si/OP(660nm)/BSP(180nm)/Cu(300nm)	1 × 10 ¹⁷

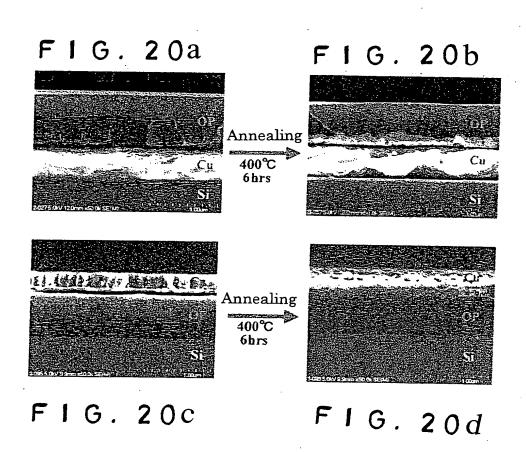
FIG. 18b

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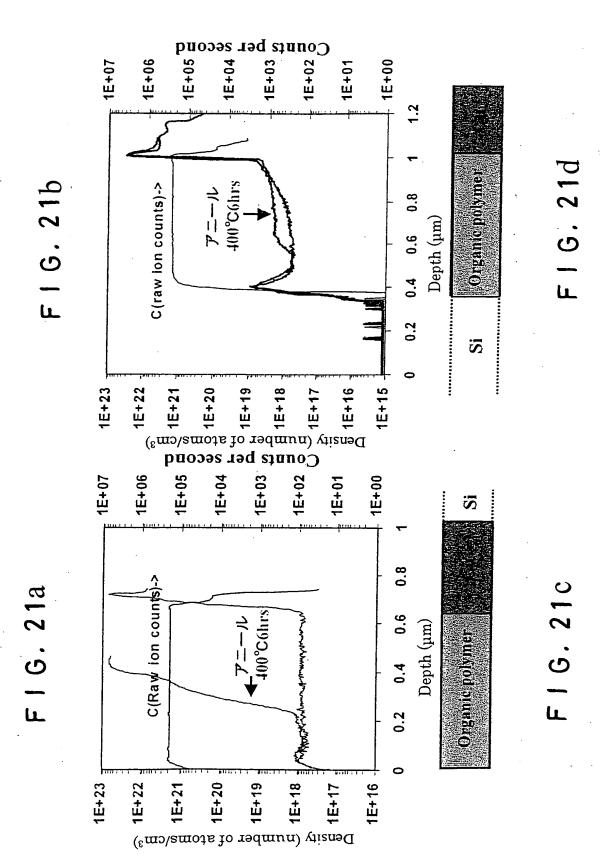
F I G. 19



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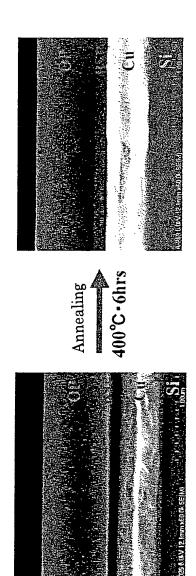


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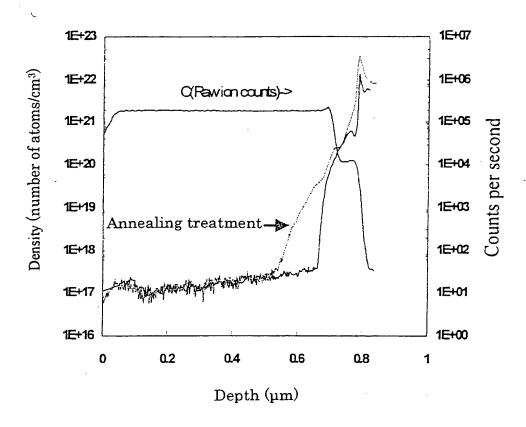
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F I G. 22



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F 1 G. 23a

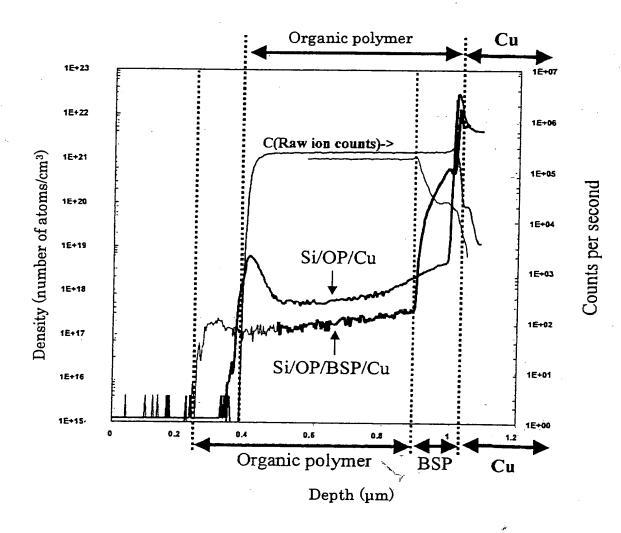


Organic polymer Cu Si

F I G. 23b

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F1G.24



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